

PLANNING AND DATA SHEET  
Hole AT14 - #2

	Plan	Actual
1 Site/Hole Name	AT1C	AT14 - #2
2 Latitude	27° 56' 15.4" N	
3 Longitude	89° 16' 50.3" W	
4 Water Depth (m)	1289	
5 Plan TDbstf (m)	307	

6 Scientific Objectives

Logging/coring at AT1C will penetrate sediments adjacent to a mound structure at which hydrate has previously been recovered (unpublished JIP data) and for which a high-reflectivity feature is interpreted at approximately 30 m below the sea floor. Coring and logging will recover sediments, hydrate, and pore fluid data to look at vertical variability and its relation to variation in seismic attributes. A velocity pull-down is interpreted in the seismic data, and gas analyses will provide direct measurement of the gas concentration and composition that created the observed pull-down.

7						8 Shipboard Sampling program					9 Shipboard Experiments														
Core Number	Start Depth (mbsf)	End Depth (mbsf)	Core length (m)	FHPC/FC	FPC/HRC	Headspace	Void gas	Pore Water	Sediment	Microbiol.	IR imaging	Piezo-probe	Temp-erature	Gas analyses	Chem.Anal. (Salinity,Alkali nity,Sulfate/s ulfide)	Multi-sensor core logger	X-ray CT scanner	Vertical gamma density logger	Hydrate dissociation with gas sampling & analysis	hand torvane shear strength	pocket penetrom eter shear strength	UU-triaxial	lab vane shear		
1	0.0	9.1	9.1	1		6	1	5		2	1	1	1	7	20	1				1	1	1	1		
2	9.1	10.1	1.0		1										0		1	1	1						
3	10.1	19.3	9.1	1		3	3	3		1	1		1	6	12	1				1	1	1	1		
4	19.3	20.3	1.0		1										0		1	1							
5	20.3	29.4	9.1	1			3	2		1	1		1	3	8	1				1	1	1	1		
6	29.4	30.4	1.0		1										0		1	1							
7	61.0	70.1	9.1	1			3	2		1	1		1	3	8	1									
8	70.1	79.2	9.1	1			3	2		1	1			3	8	1				1	1	1	1		
9	79.2	80.2	1.0		1										0		1	1	1						
10	134.1	143.3	9.1	1			2	1		1	1	1	1	2	4	1				1	1	1	1		
11	143.3	152.4	9.1	1			2	1			1			2	4	1				1	1	1	1		
12	182.9	192.0	9.1	1			2	1		1	1			2	4	1				1	1	1	1		
13	192.0	201.2	9.1	1			2	1			1			2	4	1				1	1	1	1		
14	201.2	210.3	9.1	1			2	1		1	1			2	4	1									
15	210.3	219.4	9.1	1			2	1			1			2	4	1				1	1	1	1		
16	273.0	282.1	9.1	1			2	1		1	1		1	2	4	1				1	1	1	1		
17	282.1	283.1	1.0		1		2	1			1						1	1		1	1	1	1		
18	283.1	284.1	1.0		1		2	1		1	1						1	1		1	1	1	1		
19	284.1	285.1	1.0		1		2	1			1						1	1		1	1	1	1		
20	285.1	294.3	9.1	1			2	1		1	1	1	1	2	4	1				1	1	1	1		
21	294.3	303.4	9.1	1			2	1			1			2	4	1				1	1	1	1		
22	303.4	307.0	3.6	1			2	1		1	1		1	2	4	1				1	1	1	1		
Totals			138.6	15	7	9	39	27	0	13	18	3	8	42	96	15				14	14	14	14		

- Notes:
- a. FHPC cores (called H cores) and FC cores (called C cores) of 9.1 and 4.6 m length will be cut into 1 m sections. Samples will be designated by Site-Core-Section (Centimeter interval). For example, the first sample for pore water from core 1H will be a 10-cm whole round at the base of section 1 will be designated Hole AT14 #2-1H-1 (90-100).
- b. Whole round cores (10-cm) to be saved in the section adjacent to Piezoprobe